Changed the Current Application Data section with the actual current number. The number applicant was the prior application data; or other Changed the mandatory heading and subheadings for "Current Application Data". Edited the Number of Sequences' field. The applicant spelled out a number instead of use Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEO ID NO when obviously incorrect. The sequence numbers that were ed Inserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subhea applicant placed a response below the subheading, this was moved to its appropriate place inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings/subheadings. Headings edited included: Deleted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically:	4 11
Changed the mangina in cases where the sequence text was "wrapped" down to the next Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number applicant was he prior application data; or other applicant was he prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the Number of Sequences' field. The applicant spelled out a number instead of use Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEO ID NO when obviously incorrect. The sequence numbers that were eduted or corrected a nucleic number at the end of a nucleic time. SEO ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subhead applicant placed a response below the subheading, this was moved to its appropriate place Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings-used by an applicant, specifically: Deleted mandatory headings, specifically: Corrected an obvious erro: in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	10: 11/1/2
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Edited the Current Application Data section with the actual current number. The number applicant was the prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of use Changed the spelling of a mandatory field (the headings or subheadings), specifically. Corrected the SEO ID NO when obviously incorrect. The sequence numbers that were edulated or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subhead applicant placed a response below the subheading, this was moved to its appropriate placed the inserted colons after headings/subheadings. Headings edited included: Defeted extra, invalid, headings-used by an applicant, specifically: Defeted extra, invalid, headings-used by an applicant, specifically: Defeted mandatory headings, specifically: Corrected an obvious erro: in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	
Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of use Changed the spelling of a mandatory field (the headings or subheadings), specifically. Corrected the SEO ID NO when obviously incorrect. The sequence numbers that were ed Inserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subhead applicant placed a response below the subheading, this was moved to its appropriate place Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted extra, invalid, headings used by an applicant, specifically: Corrected mandatory headings, specifically: Corrected an obvious erro: in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	OV 1 3 2001
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Corrected the SEO ID NO when obviously incorrect. The sequence numbers that were ed Inserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subhea applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Defeted extra, invalid, headings used by an applicant, specifically: Defeted extra, invalid, headings used by an applicant, specifically: Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	sing an intogo
Inserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subhead applicant placed a response below the subheading, this was moved to its appropriate place inserted colons after headings/subheadings. Headings edited included: Defeted extra, invalid, headings-used by an applicant, specifically: Corrected mandatory headings, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	
Corrected subheading placement. All responses must be on the same line as each subhead applicant placed a response below the subheading. This was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Defeted extra, invalid, headings-used by an applicant, specifically: Secretary initials/filenations are interested an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	iled were:
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Deleted extra, invalid, headings-used by an applicant, specifically: Deleted: non-ASCII "garbago" at the beginning/end of files: secretary initials/filena page numbers throughout text; other invalid text, such as	
Deletod: Ann-ASCII garbago at the beginning/end of files: secretary initials/filena page numbers throughout text; other invalid text, such as	
Inserted mandatory headings, specifically: Corrected an obvious erro: in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	
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Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.	
Corrected an error in the Number of Sequences field, specifically:	
A Hard Page Break, code was inserted by the applicant. All occurrences had to be deleted	
Peloted ending stop codon in amino acid sequences and adjusted the *(A)Length:* field account to a Patentin bug). Sequences corrected:	
Other:	

Examiner: The above corrections must be communicated to the applicant in the first Office Action! DO NOT send a copy of this form.

DATE: 11/01/2001

TIME: 19:01:02

Input Set : A:\PTO.AMC.txt Output Set: N:\CRF3\11012001\H737904H.raw 3 <110> APPLICANT: Griffith, Irwin J Kuo, Mei-Chang Luqman, Mohammad 7 <120> TITLE OF INVENTION: T CELL EPITOPES OF RYEGRASS POLLEN ALLERGEN 9 <130> FILE REFERENCE: IMI-040CP3 RECEIVED 11 <140> CURRENT APPLICATION NUMBER: 08/737,904H 12 <141> CURRENT FILING DATE: 1996-11-20 14 <150> PRIOR APPLICATION NUMBER: 08/106,016 NOV 1 3 2001 15 <151> PRIOR FILING DATE: 1993-08-13 17 <160> NUMBER OF SEQ ID NOS: 61 TECH CENTER 1600/2900 19 <170> SOFTWARE: PatentIn Ver. 2.0 W--> 20 <210> SEQ ID NO: 1 21 <211> LENGTH: 1229 22 <212> TYPE: DNA 23 <213> ORGANISM: Escherichia coli 25 <220> FEATURE: 26 <221> NAME/KEY: CDS 27 <222> LOCATION: (40)..(942) 29 <400> SEQUENCE: 1 30 egetateeet eeetegtaca aacaaacgca agagcagca atg gee gte eag aag 54 31 Met Ala Val Gln Lys 34 tac acg gtg gct cta ttc ctc gcc gtg gcc ctc gtg gcg ggc ccg gcc 102 35 Tyr Thr Val Ala Leu Phe Leu Ala Val Ala Leu Val Ala Gly Pro Ala 10 38 gcc tcc tac gcc gct gac gcc ggc tac acc ccc gca gcc gcg gcc acc 150 39 Ala Ser Tyr Ala Ala Asp Ala Gly Tyr Thr Pro Ala Ala Ala Thr 40 25 30 42 ccg gct act cct gct gcc acc ccg gct gcg gct gga ggg aag gcg acg 198 43 Pro Ala Thr Pro Ala Ala Thr Pro Ala Ala Gly Gly Lys Ala Thr 45 46 acc gac gag cag aag ctg ctg gag gac gtc aac gct ggc ttc aag gca 246 47 Thr Asp Glu Gln Lys Leu Leu Glu Asp Val Asn Ala Gly Phe Lys Ala 60 50 gcc gtg gcc gcc gct gcc aac gcc cct ccg gcg gac aag ttc aag atc 51 Ala Val Ala Ala Ala Asn Ala Pro Pro Ala Asp Lys Phe Lys Ile 75 80 54 ttc gag gcc gcc ttc tcc gag tcc tcc aag ggc ctc ctc gcc acc tcc 342 55 Phe Glu Ala Ala Phe Ser Glu Ser Ser Lys Gly Leu Leu Ala Thr Ser 90 95 58 gcc gcc aag gca ccc ggc ctc atc ccc aag ctc gac acc gcc tac gac 390 59 Ala Ala Lys Ala Pro Gly Leu Ile Pro Lys Leu Asp Thr Ala Tyr Asp 105 110 62 gtc gcc tac aag gcc gcc gag ggc gcc acc ccc gag gcc aag tac gac

63 Val Ala Tyr Lys Ala Ala Glu Gly Ala Thr Pro Glu Ala Lys Tyr Asp 125 66 gcc ttc gtc act gcc ctc acc gaa gcg ctc cgc gtc atc gcc ggc gcc

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/737,904H

438

486

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/737,904H
DATE: 11/01/2001
TIME: 19:01:02

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11012001\H737904H.raw

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/I Leu Glu Val His Ala Val Lys Pro Ala Thr Glu Glu Val Pro Ala Ala	,,,,
⁷² 150 155 160 165	
74 aag atc ccc acc ggt gag ctg cag atc gtt gac aag atc gat gct gcc 5	82
75 Lys Ile Pro Thr Gly Glu Leu Gln Ile Val Asp Lys Ile Asp Ala Ala 76 170 175	
78 ttc. aag atc. goa goo goo goo goo goo goo	
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80 185 190 195	
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83 Phe Thr Val Phe Glu Ser Ala Phe Asn Lys Ala Leu Asn Glu Cys Thr	, 0
84 200 205 210	
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87 Gly Gly Ala Tyr Glu Thr Tyr Lys Phe Ile Pro Ser Leu Glu Ala Ala 88 215 220	
90 gtc aag cag gcc tag gcc aga aga ata ata ata	
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92 230 235 240 245	
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95 TYP Ala Val Phe Glu Ala Ala Leu Thr Lys Ala Ile Thr Ala Met Thr	<i>. L</i>
⁹⁶ 250 255 260	
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99 Gln Ala Gln Lys Ala Gly Lys Pro Ala Ala Ala Ala Ala Thr Gly Ala 100 265 270 275	
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104 280 285 290	
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RAW SEQUENCE LISTING

DATE: 11/01/2001 HH TIME: 19:01:02

PATENT APPLICATION: US/08/737,904H

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Output Set: N:\CRF3\11012001\H737904H.raw

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				Lvs	Ala	Ala			Δla	Δla	Δla			Dro	Dro	ת ה
140	65	4		-1-		70	, 41	ZII.u	mu	ALU	75	Non	Ala	PIO	PIU	
142	Asp	Lvs	Phe	Lvs	Tle	Phe	Glu	Δla	Δla	Dha	Sor	Clu	Cor	Cor	Tira	80
143		1-		-10	85	- 110	Olu	mu	niu	90		Gru	ser	ser	ьуs 95	GIY
		Leu	Ala	Thr		Ala	Δla	Luc	λla			Τ	T10	Dwo	7	T a
146				100	001		1114	נים	105		GIY	Leu	116		ьуѕ	ьeu
		Thr	Ala		Δsn	Val	λla	Пτεν			7 1 n	C1	C1	110	m 16	D
149			115	+ 1 -	1150	Vul	ліа	120			HIG		125		THE	PLO
		Ala		Tur	Δsn	Ala	Dho								т	3
152		130	_15	-1-	P	111.U	135		1111		ьеu	140	GIU	Ата	Leu	Arg
			Δla	Glv	Δla	Leu					17-1		Dwo	3 1 a	mh	01
155	145			O _T	mu	150	Giu	vai	птэ	Ala	155	гуѕ	PIO	Ата	THE	
		Va 1	Pro	Δla	Δla	Lys	Tla	Dro	Thr	Clv		Tan	Cln	т1.	170 1	160
158	014	, 41	110	1114	165	шуз	TIE	FIO	1111	170	GIU	ьeu	GIII	тте		Asp
	Lvs	Tle	Acn	Δla		Phe	Tvc	т1.	λ l ¬	T/U	mh	71-	71-	3	175	- 1
161	17.0	110	пър	180	ліц	FIIC	цуз	тте	185	Ата	THE	Ala	Ala		Ата	Ala
	Pro	Thr	λen		Lvc	Phe	mh r	1/2 1	100	α1	C	.1.	Dl	190	_	
164		1111	195	пър	цуз	rne	TIIT	200	Pile	GIU	ser	Ala		ASN	гàг	Ala
	T.011	Δen		Cve	Thr	C1 v	C111		M	C1	m 1	m	205	m1.	1	_
167	LCu	210	GIU	Cys	1111	Gly	215	Ата	TAT	GLU	THE		гуѕ	Pne	тте	Pro
	Ser		Glu	λla	715	17 - 1		C1 n	31.	m	33 -	220	1	1		
170	225	пси	Gru	АТа	Ата	Val 230	гуѕ	GIII	Ald	туг		Ата	Thr	vaı	Ala	
		Dro	Glu	₩a1	Tara		7.1.0	37 - 1	Dha	G1	235	37-	-	1-	_	240
173	11±u	110	GIU	vai	245	Tyr	нта	Val	Pne		Ата	Ата	Leu	Thr		Ala
	Tle	Thr	λla	Mot		Cln	7 l a	Cln	T	250	a 1	T	D		255	
176	110	1111	mu	260	1111	Gln	Ата	GIII	265	нта	GTÀ	гуѕ	Pro		Ата	Ата
	Δla	Δla	Thr		λla	Ala	mh r	175.1		mh.~	<i>α</i> 1	31 -	n 1 -	270		
179			275	OLY	ALU	ліц	1111	280	на	TIIT	GIA	Ald		Thr	Ата	Ата
	Δla	G1 v		Δla	Thr	Ala	λΊο		C1	C1	Ш	T	285			
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	<211															
	<212															
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DATE: 11/01/2001

PATENT APPLICATION: US/08/737,904H TIME: 19:01:02 Input Set : A:\PTO.AMC.txt Output Set: N:\CRF3\11012001\H737904H.raw 207 <222> LOCATION: (20) 208 <223> OTHER INFORMATION: GAMMA_CARBOXYGLUTAMIC ACID 210 <400> SEQUENCE: 3 211 Ala Asp Ala Gly Tyr Thr Xaa Ala Ala Ala Ala Thr Xaa Ala Thr Xaa 212 1 5 214 Ala Ala Thr Xáa 215 218 <210> SEQ ID NO: 4 219 <211> LENGTH: 20 220 <212> TYPE: PRT 221 <213> ORGANISM: Escherichia coli 223 <220> FEATURE: 224 <221> NAME/KEY: MOD_RES 225 <222> LOCATION: (3) 226 <223> OTHER INFORMATION: GAMMA_CARBOXYGLUTAMIC ACID 228 <220> FEATURE: 229 <221> NAME/KEY: MOD_RES 230 <222> LOCATION: (10) 231 <223> OTHER INFORMATION: GAMMA_CARBOXYGLUTAMIC ACID 233 <400> SEQUENCE: 4 ≫ 234 Ala Thr Xaa'Ala Thr Pro Ala Ala Thr Xaa Ala Ala Ala Gly Gly Lys 235 1 10 237 Ala Thr Thr Asp 238 241 <210> SEQ ID NO: 5 242 <211> LENGTH: 20 243 <212> TYPE: PRT 244 <213> ORGANISM: Escherichia coli 246 <220> FEATURE: 248 <400> SEQUENCE: 5 249 Ala Ala Ala Gly Gly Lys Ala Thr Thr Asp Glu Gln Lys Leu Leu Glu 1 252 Asp Val Asn Ala 253 256 <210> SEQ ID NO: 6 257 <211> LENGTH: 20 258 <212> TYPE: PRT 259 <213> ORGANISM: Escherichia coli 261 <400> SEQUENCE: 6 262 Glu Gln Lys Leu Leu Glu Asp Val Asn Ala Gly Phe Lys Ala Ala Val 263 265 Ala Ala Ala Ala 266 269 <210> SEQ ID NO: 7 270 <211> LENGTH: 16 271 <212> TYPE: PRT 272 <213> ORGANISM: Escherichia coli 274 <400> SEQUENCE: 7 275 Gly Phe Lys Ala Ala Val Ala Ala Ala Ala Asn Ala Pro Pro Ala Asp

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/737,904H

DATE: 11/01/2001
TIME: 19:01:02

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Output Set: N:\CRF3\11012001\H737904H.raw

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Use of n and/or Xaa has been detected in the Sequence Listing.

Review the Sequence Listing to insure a corresponding

Use of n and/or Xaa has been detected in the Sequence Listing lanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 11/01/2001 PATENT APPLICATION: US/08/737,904H TIME: 19:01:03

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11012001\H737904H.raw

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1600

RAW SEQUENCE LISTING

DATE: 10/26/2001

PATENT APPLICATION: US/08/737,904H

TIME: 12:58:55

Input Set : A:\seqlistcorrected(03-08-01).txt Output Set: N:\CRF3\10262001\H737904H.raw

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                                                                  Corrected Diskette Needed
         Kuo, Mei-Chang
         Luqman, Mohammad
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12 <141> CURRENT FILING DATE: 1996-11-20
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VERIFICATION SUMMARY

DATE: 10/26/2001 PATENT APPLICATION: US/08/737,904H TIME: 12:58:56

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